

# The Red Eye



David E. Anisman, MD

# **A Few Rules to Live By....**

- **Never put steroid drops in an eye unless directed to do so by an ophthalmologist**
  - **follow-up with an ophthalmologist is a must**

# A Few Rules to Live By....

- **Anesthetic drops are *diagnostic* only**
  - retard corneal healing
  - cycloplegics preferred for analgesia

# A Few Rules to Live By....

- **Va is the vital sign of the eye**
  - **each eye separately, both eyes together**
  - **if not near normal, try pinhole**
  - **if still not normal, suspect unclear media**

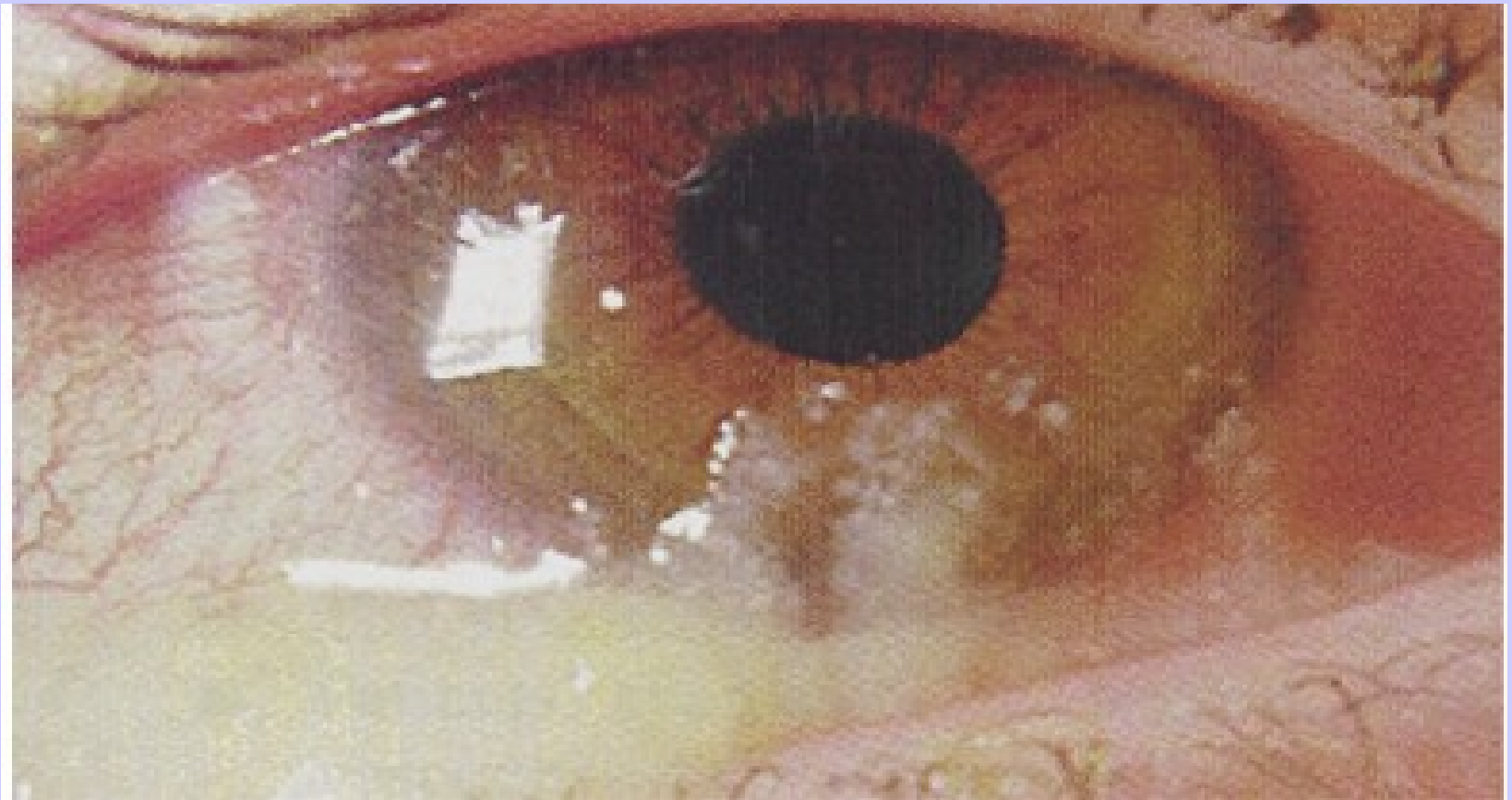
# A Few Rules to Live By....

- **Any red eye that does not resolve as expected....**
  - **immediate re-evaluation**
  - **consider referral**

# Case #1



# Case #1



# Case #1

- **Dx: Bacterial Conjunctivitis**
- **Etiology: staph, Hemophilus, S. pneumo**
  - GC, N. meningiditis
- **If Nisseria or chlamydia suspected:  
Cx**
- **Tx: topical Ciloxan, Polytrim, sulfacetamide, Erythromycin**
  - urgent referral for Nisseria



# Case #1

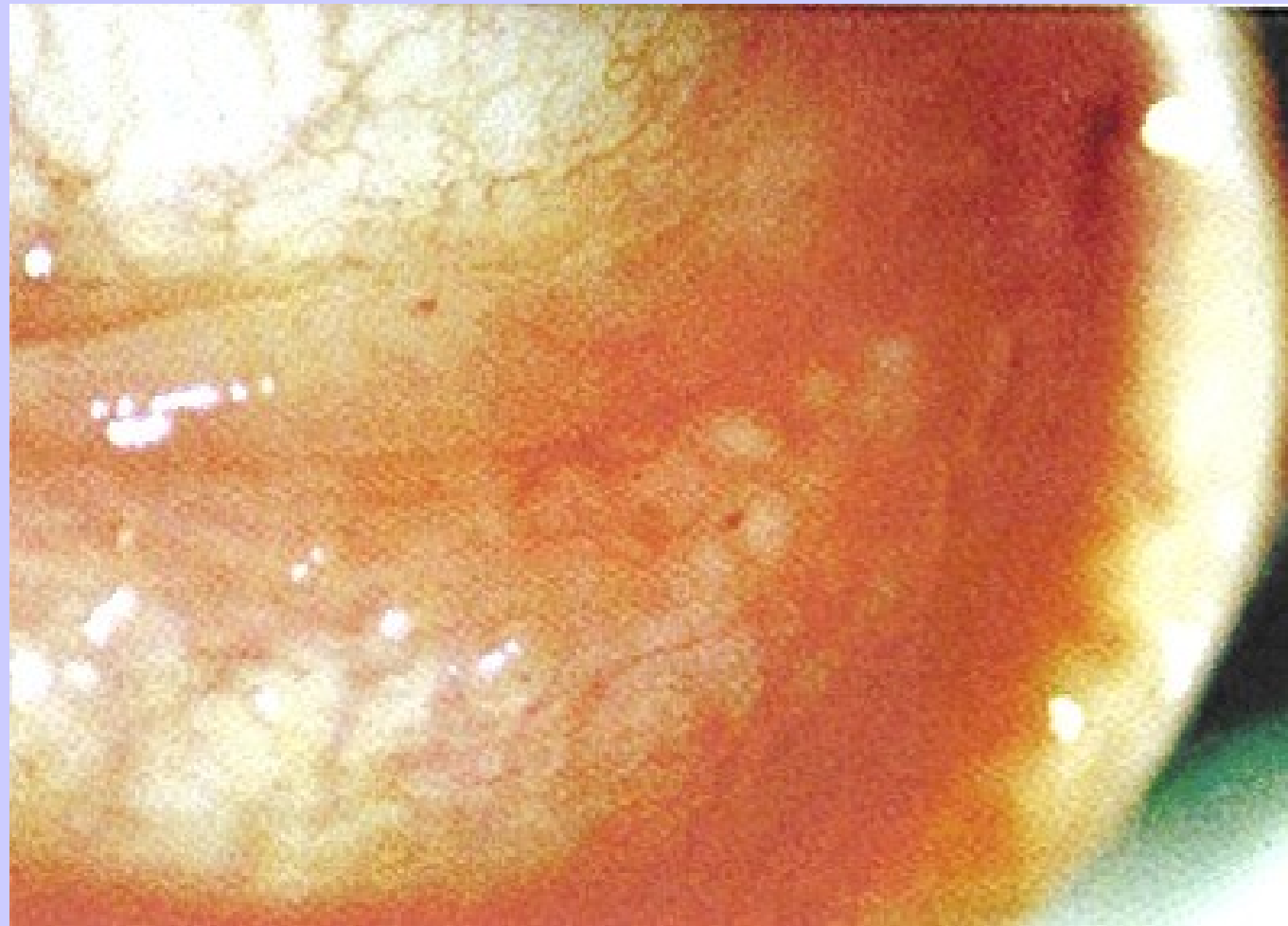
- **DDx:**
  - **Allergic Conjunctivitis**

# Case #1

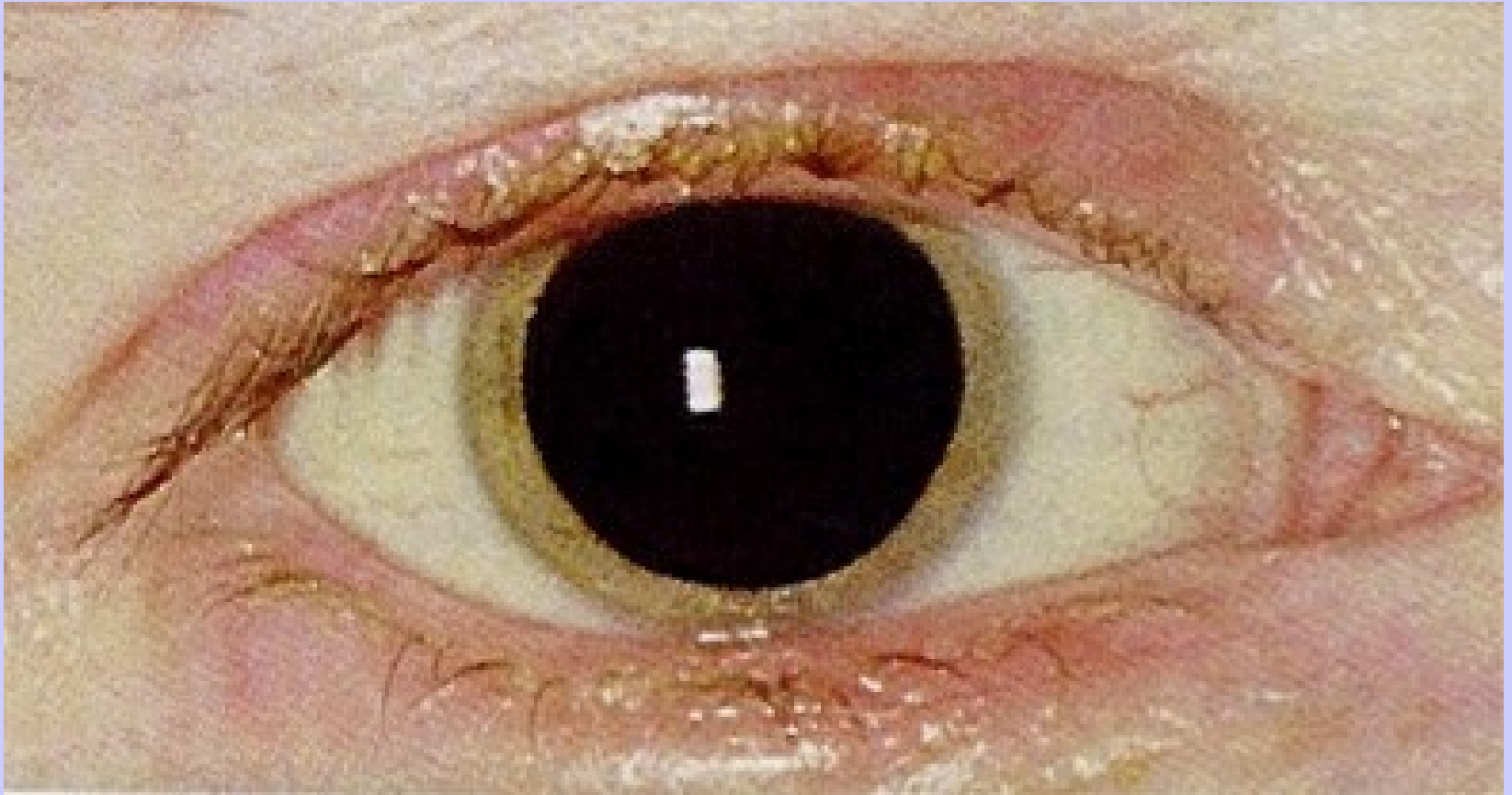
- **DDx:**
  - **Allergic Conjunctivitis**
  - **Neonatal Conjunctivitis**

# Case #1

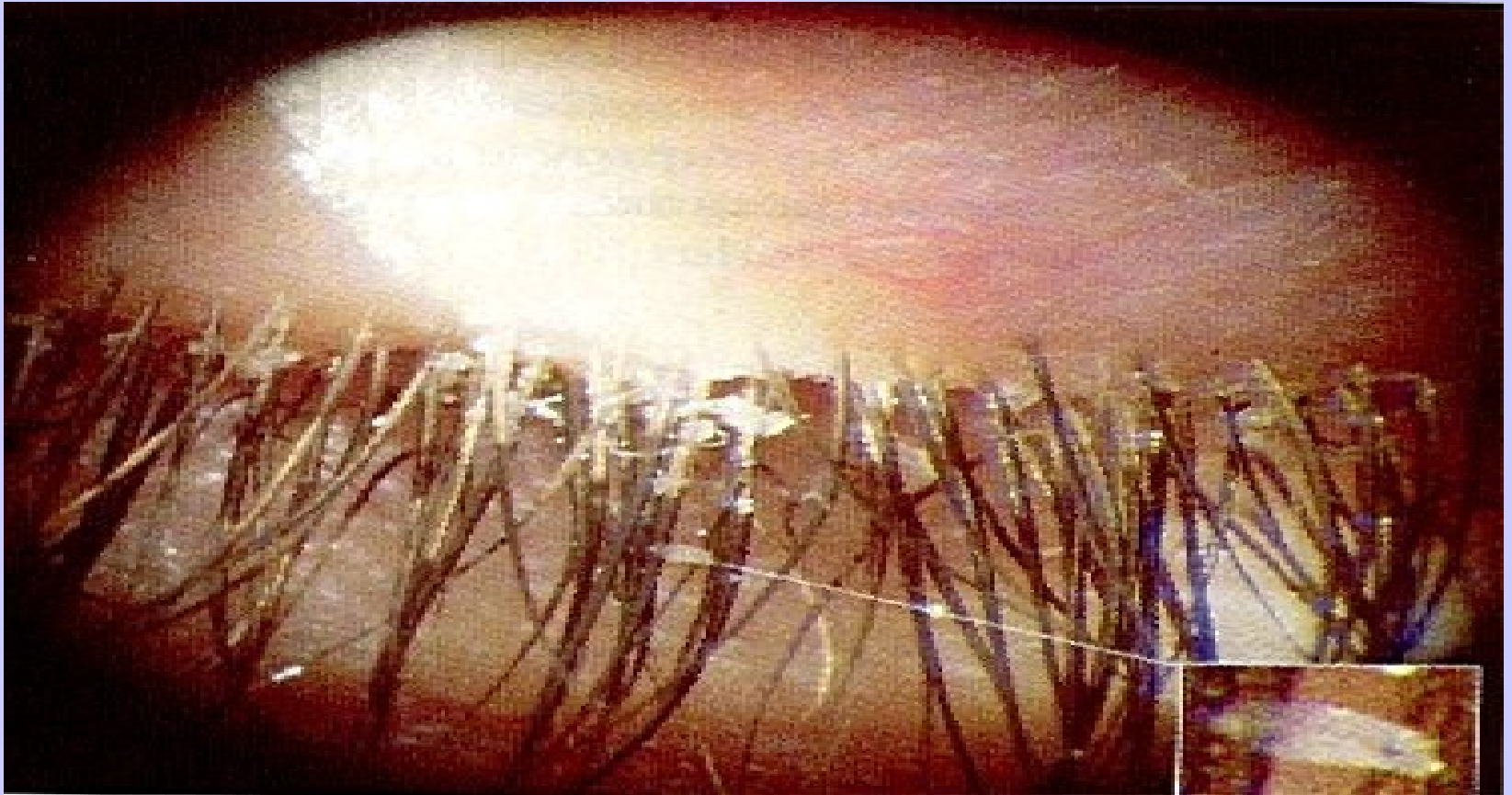
- **DDx:**
  - **Allergic Conjunctivitis**
  - **Neonatal Conjunctivitis**
  - **Viral Conjunctivitis**



# Case #2

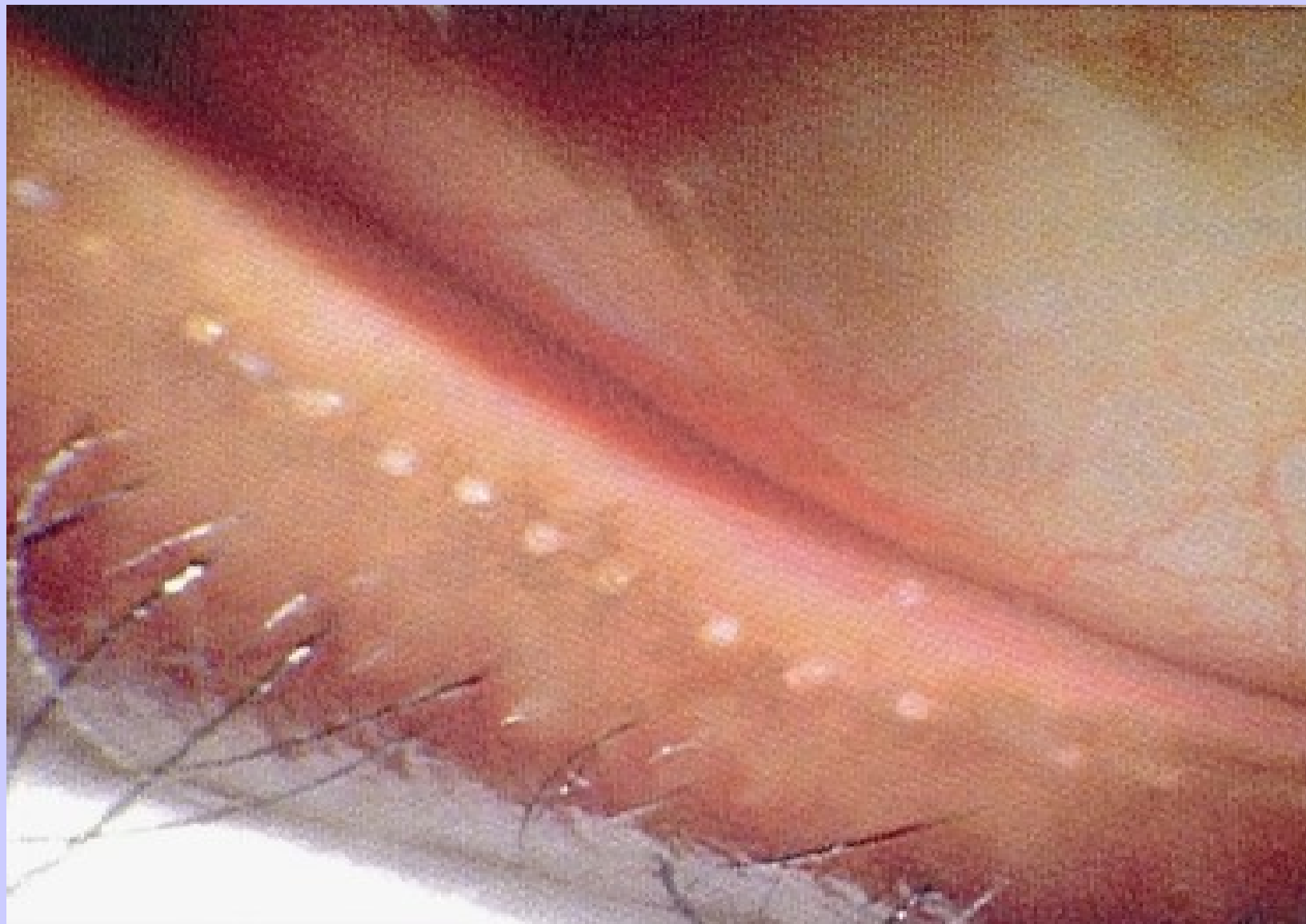


# Case #2



## Case #2

- **Dx: Blepharitis**
- **Etiology: seborrhea; staph (often assoc w/ hordeola); meibomian gland dysfunction (often assoc w/ chalazia)**
- **Tx: daily lid margin scrubs; massage of lid margins; abx (erythro or Polysporin B ung; Doxy 50-200mg qd x 6 weeks)**





# Case #3



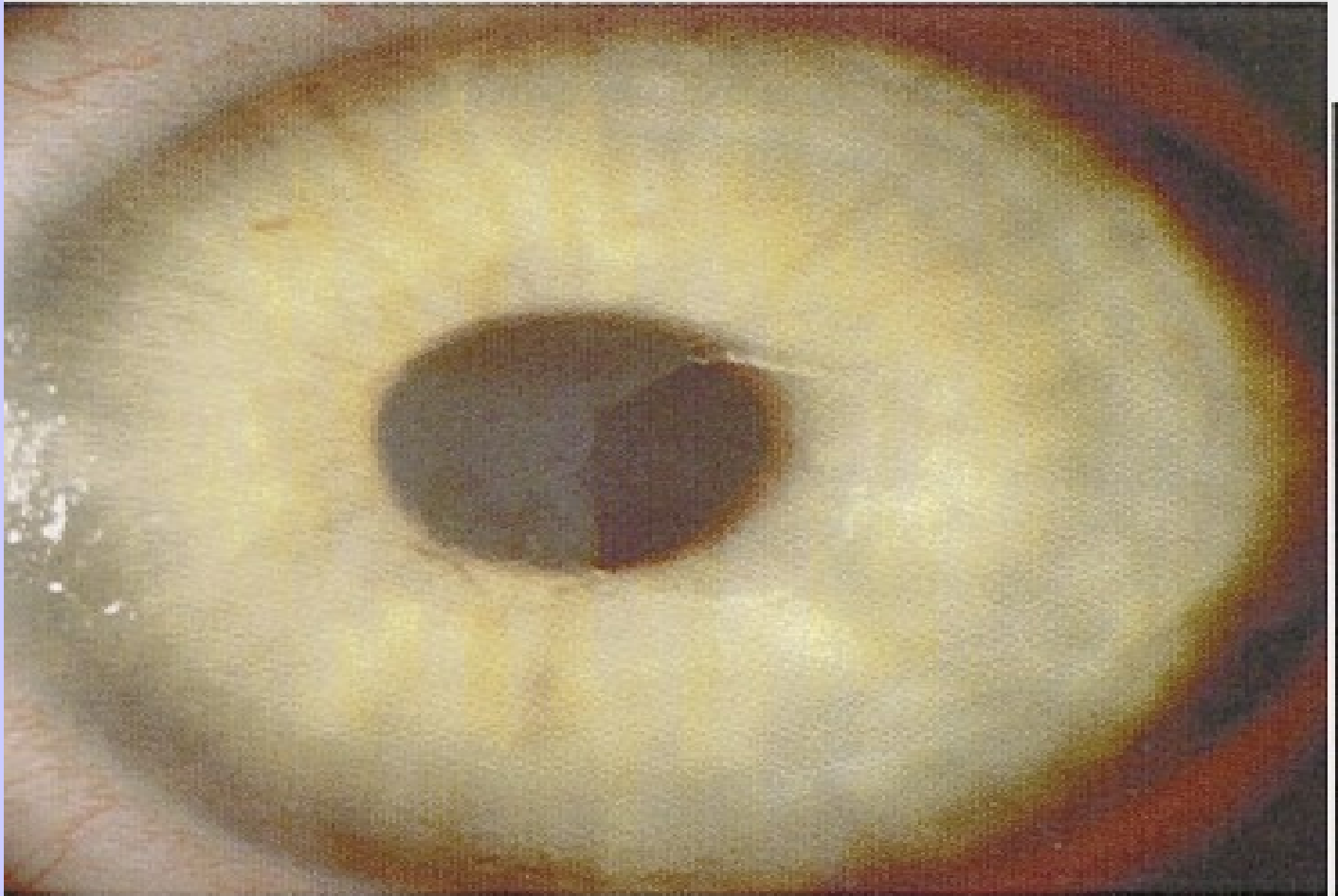
# Case #3

- **Dx: External hordeolum**
- **Etiology: staph infxn of a sebaceous gland of the lid**
- **Tx: warm compress (hard boiled egg) +/- topical abx (e-mycin or bacitracin ung) tid--qid**
  - **I&D if conservative tx fails (refer)**

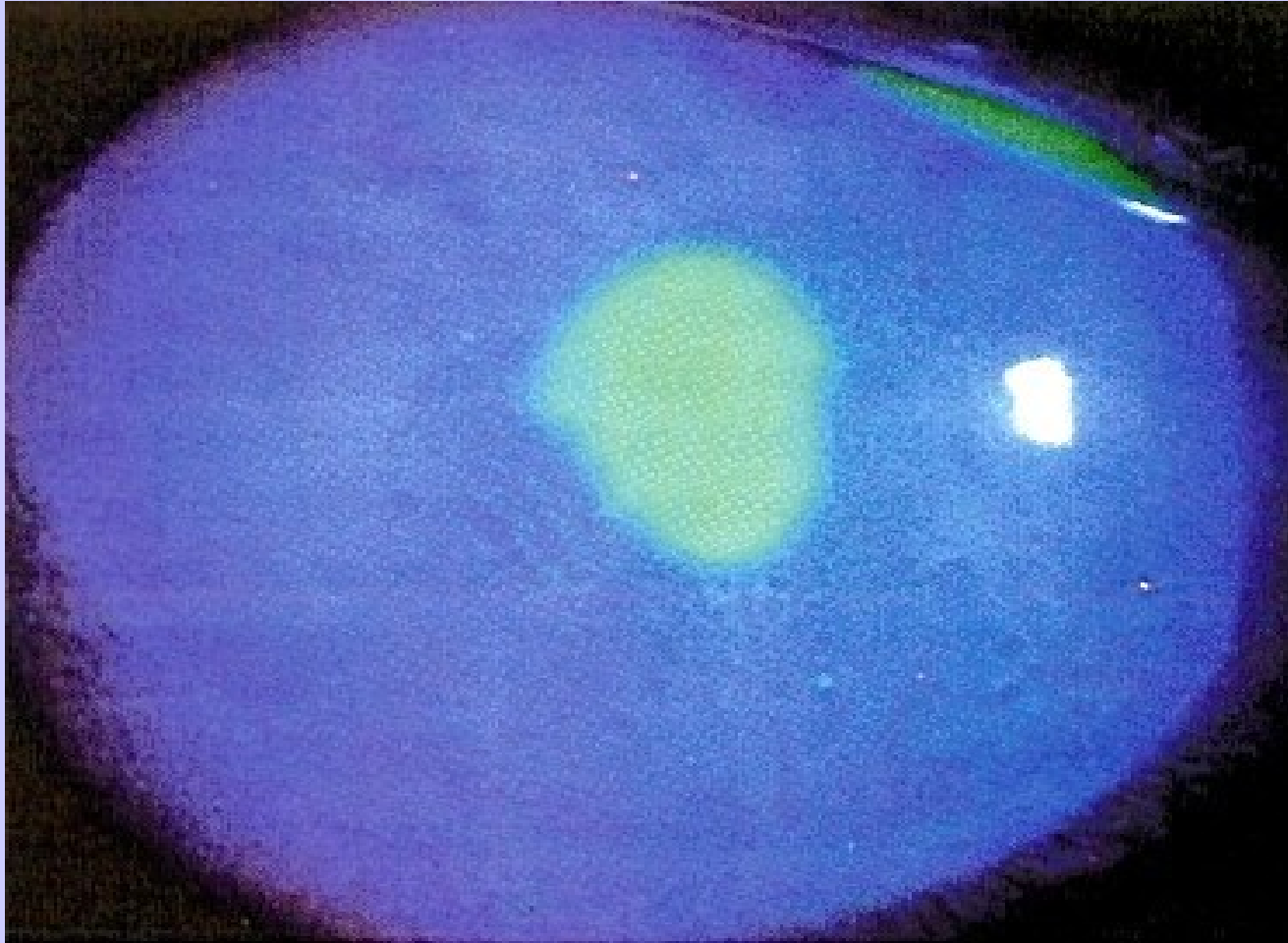




# Case #4



# Case #4



## Case #4

- **DDx: viral keratitis (beware the dendritic appearance of herpes simplex), foreign body, UV injury**
- **W/U: rule out foreign body**

# Case #4

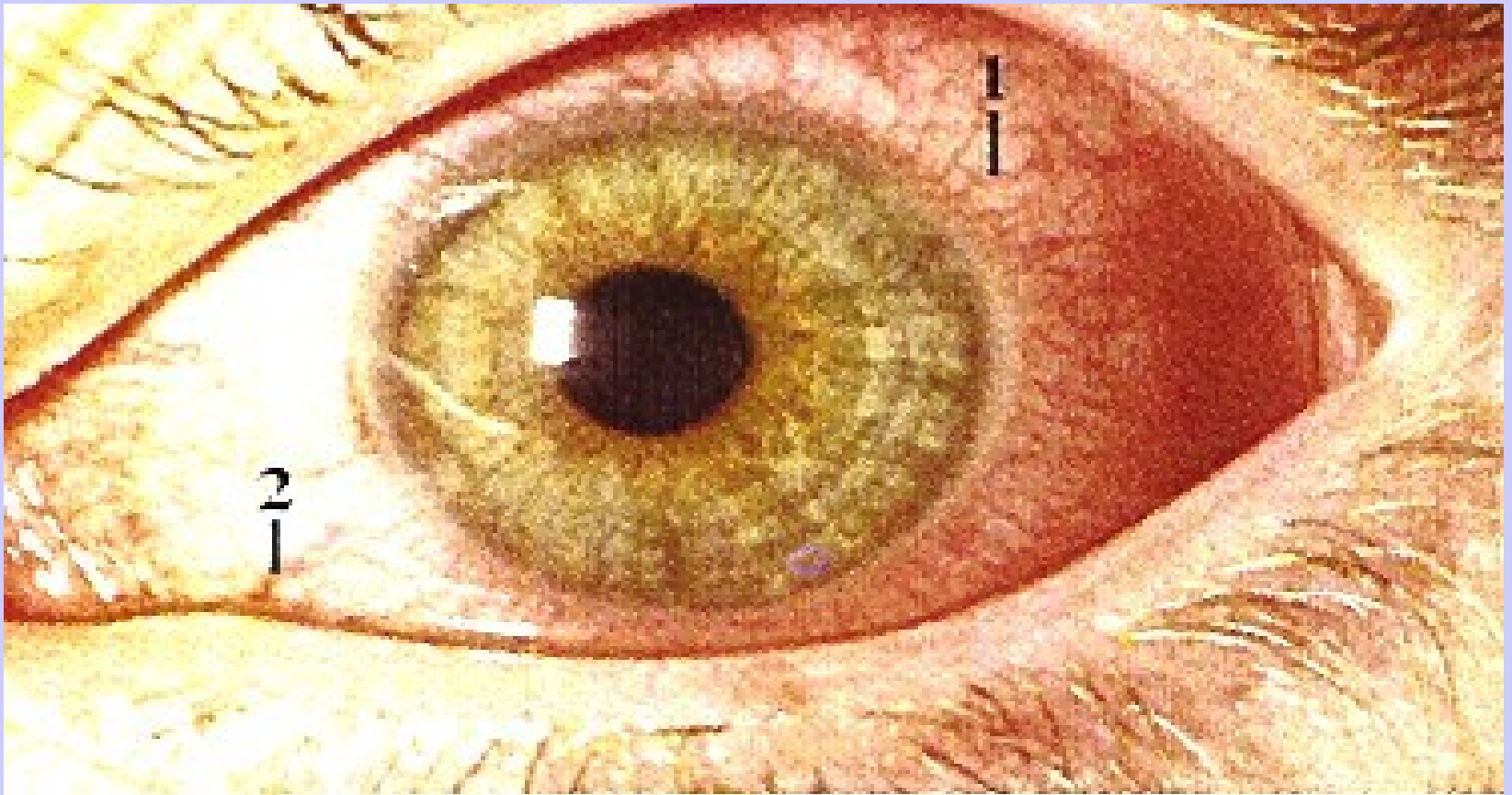
- **Tx:**
  - **cycloplegia (homatropine 5%) tid**
  - **abx ung (Polysporin or erythro tid; if caused by vegetable matter, use Tobramycin ophth ung)**
  - **pressure patch x 24hr (max) for large abrasions (>5-10mm)**



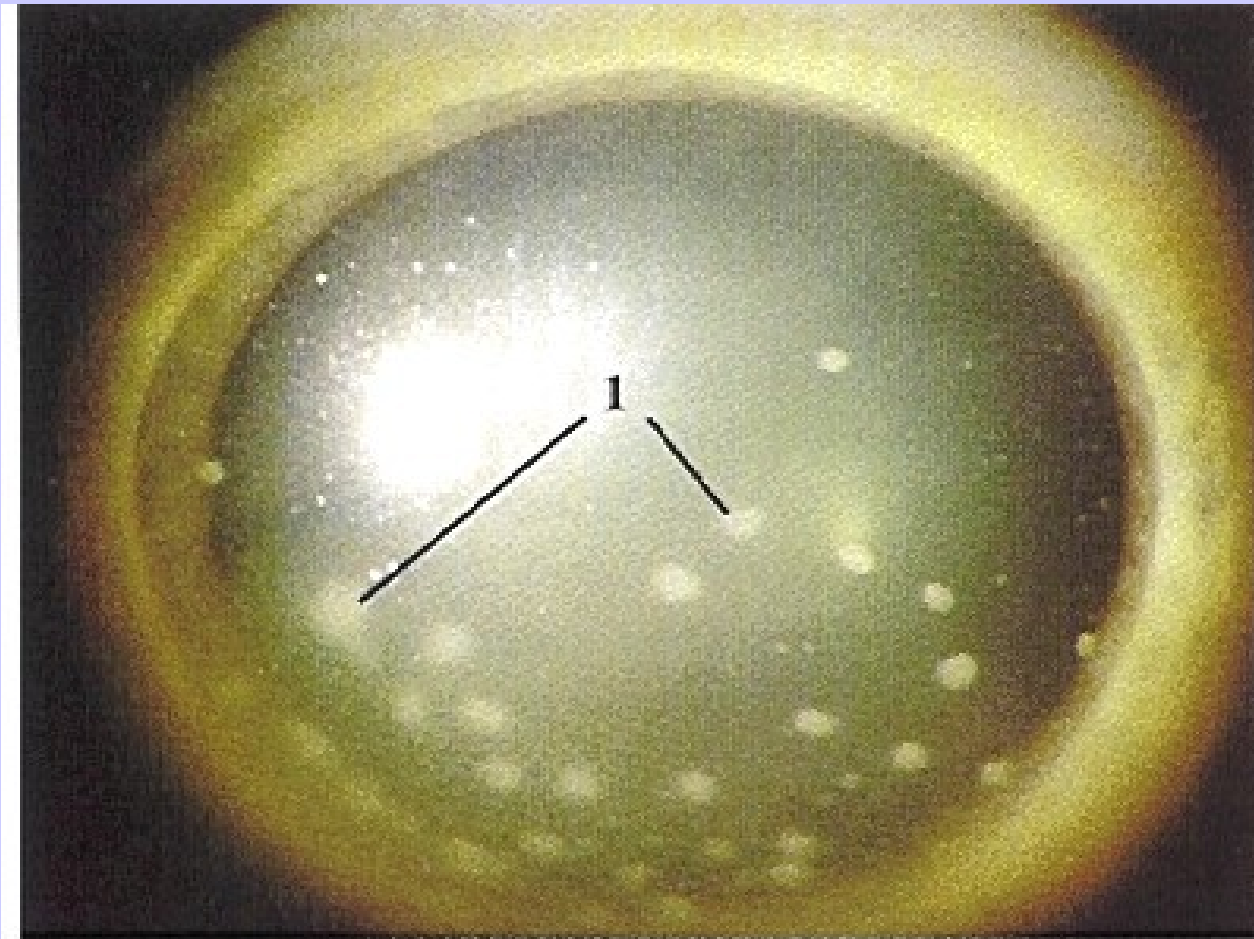
# Case #4

- **Tx:**
  - analgesia w/ oral meds (to include narcotics prn)
  - refer large central abrasions to Ophtho
  - **DO NOT** give topical analgesics to patient to take home
  - **F/u: daily until completely healed; *if this takes >3d, refer.***

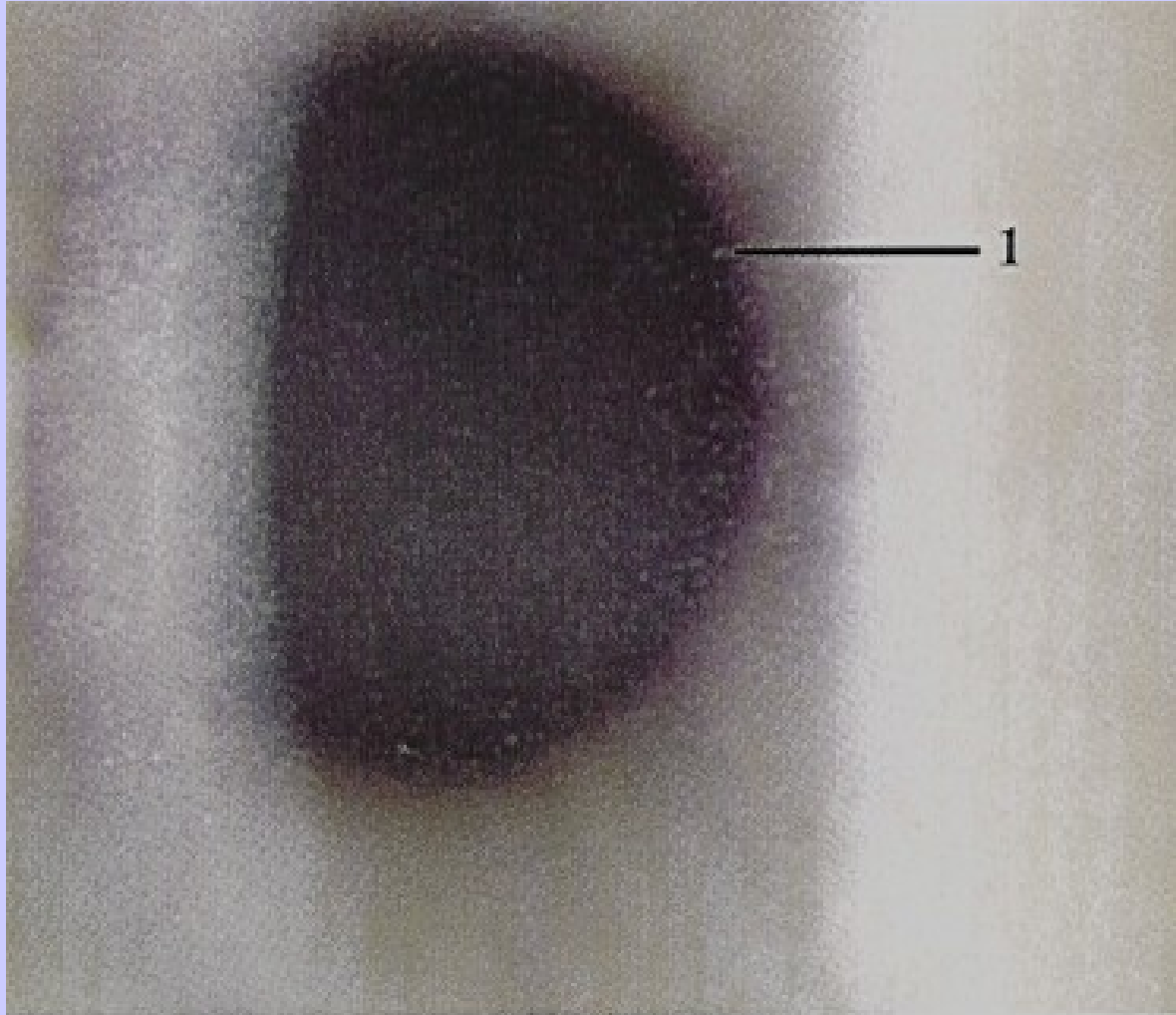
# Case #5



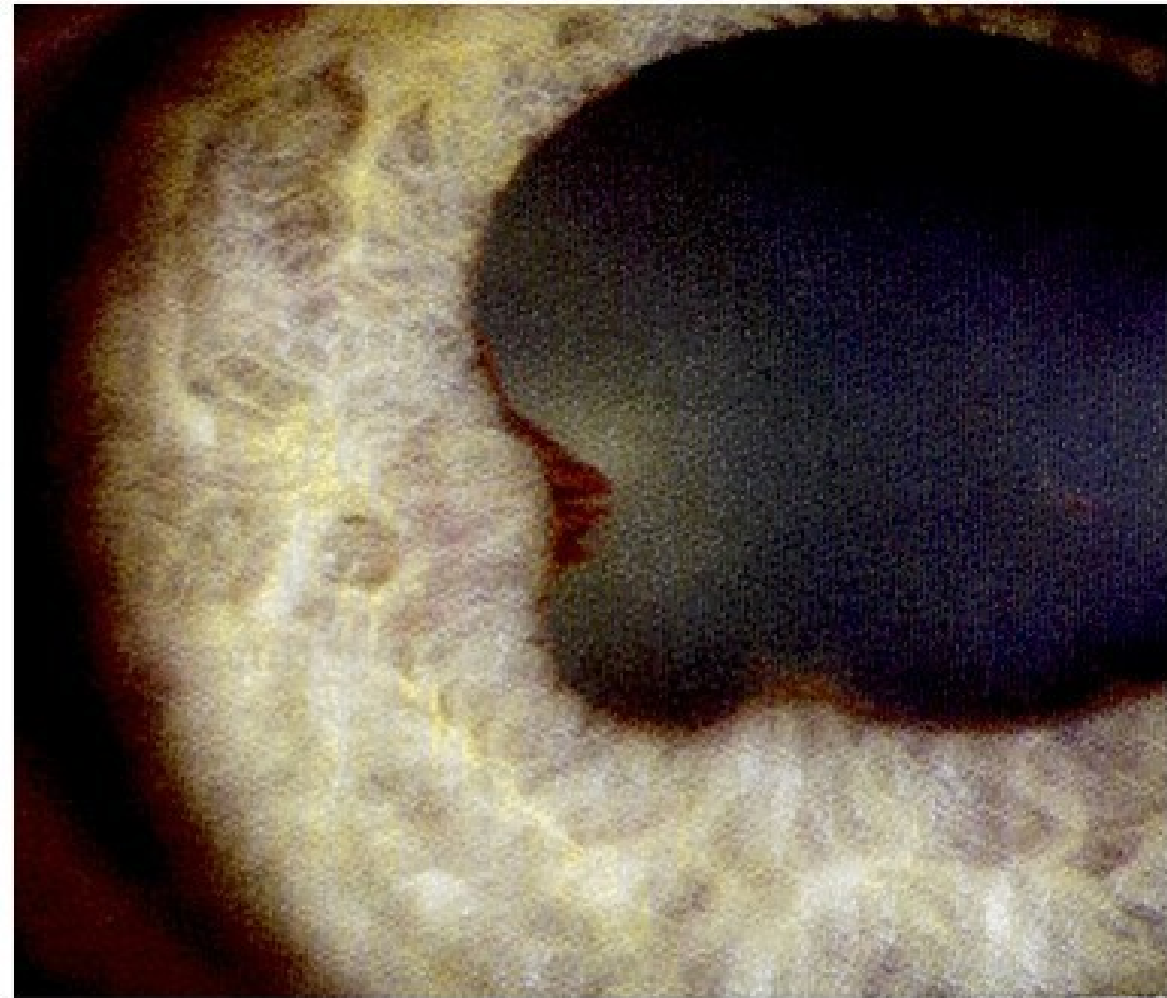
# Case #5



# Case #5



# Case #5



# Case #5

- **Etiol: most idiopathic; many systemic causes**
- **W/U: careful H&P, looking for systemic disease**
  - **for unilateral, first-episode disease, unremarkable hx and exam, no w/u needed**
  - **for bilateral, recurrent disease, systemic w/u indicated**

# Case #5

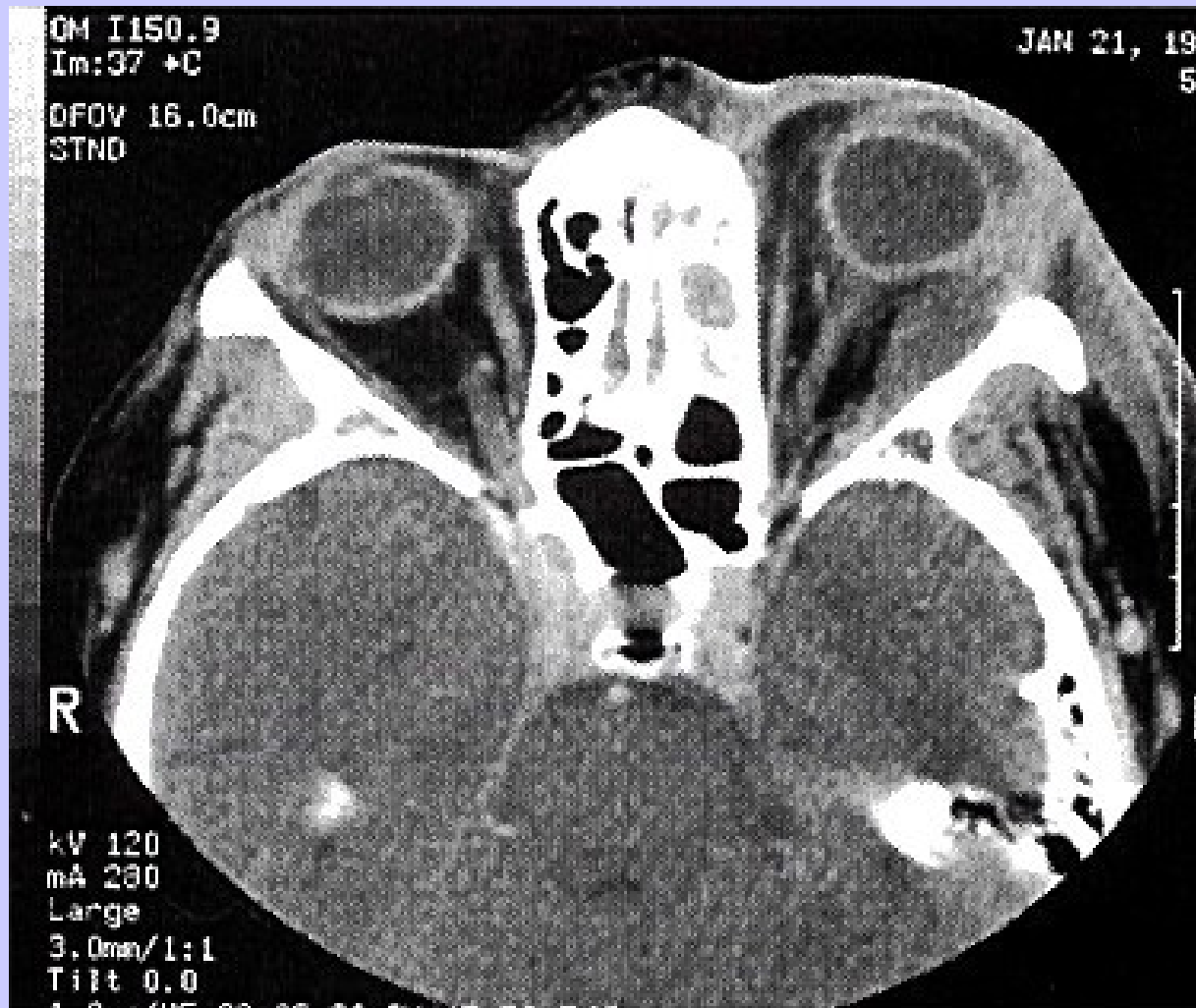
- **Tx:**
  - ***ophtho referral w/in 24h***
  - **cycloplegia (topical homatropine 5% bid)**
  - **topical steroid (Pred-Forte 1%)  
*initiated by an ophthalmologist***

# Case #6





# Case #6



# Case #6

- **Dx: Orbital Cellulitis**
- **Tx:**
  - ***IMMEDIATE Ophtho referral***
  - **IV broad-spectrum abx**
  - **surgical drainage for large abscess**
- **F/u: ensure cavernous sinus thrombosis doesn't develop**

# Case #6

- **DDx: Preseptal Cellulitis**
- **Sx:**
  - pain with EOM due to lid discomfort
  - no diplopia
  - lack of systemic toxicity
- **Etiol: URI, sinusitis, lid trauma, hordeolum**

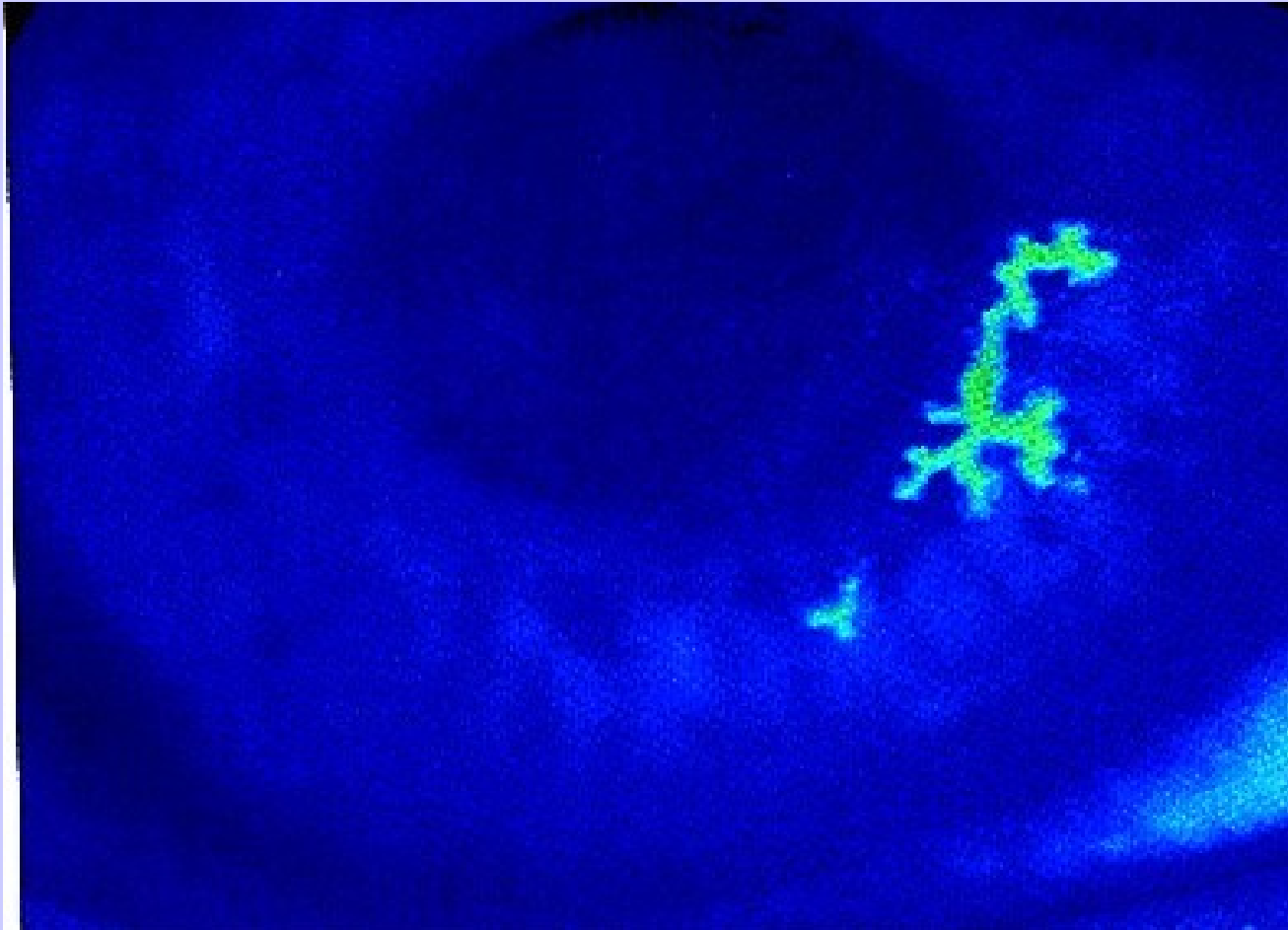
# Case #6

- **Tx (Preseptal Cellulitis)**
  - mild cellulitis - oral broad-spectrum abx
  - severe - IV broad-spectrum abx
  - child < 2 yrs: admit for IV abx
- **F/u: ensure orbital cellulitis doesn't develop**

## Case #7

- 26 y.o. M c/o 1 day of irritation, photophobia, pain mild OD
- Exam: Va 20/20 OU; mild conj. Injection; nl EOM and pupillary light reaction

# Case #7



# Case #8

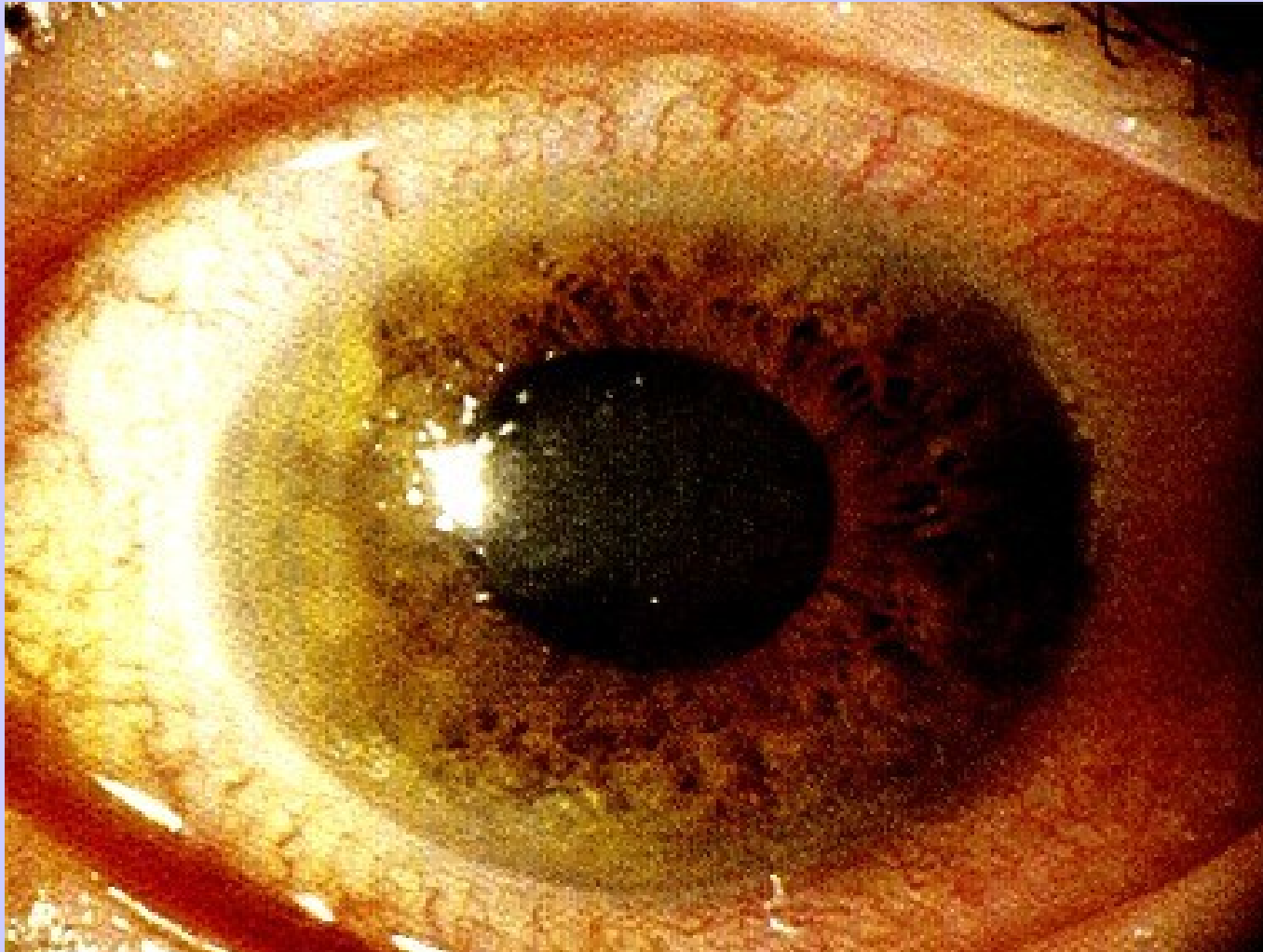


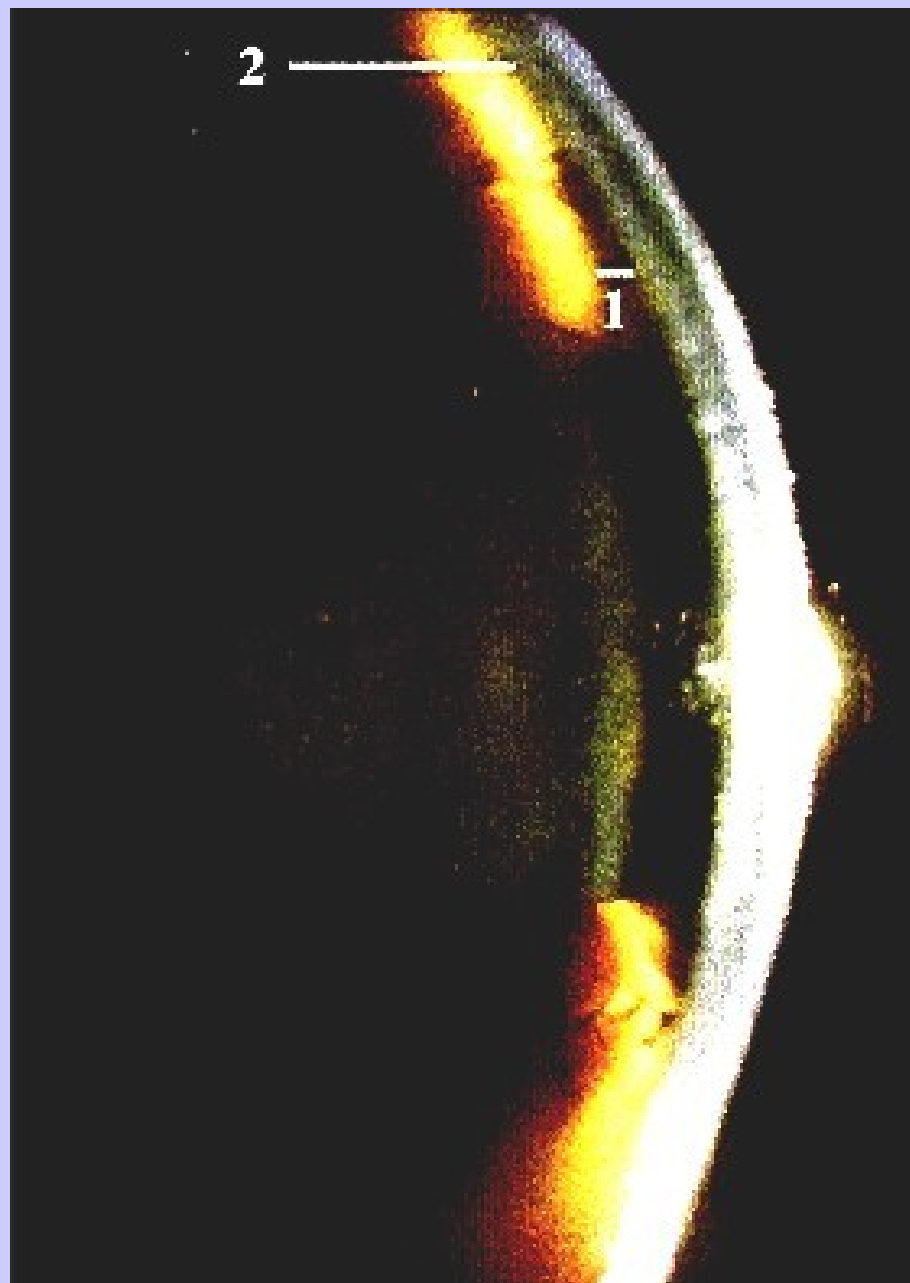
## Case #9

- **66 y.o. F c/o intense pain and photophobia OD while sitting in theater**
  - **blurred vision**
  - **seeing halos around lights**
  - **lightheaded**



# Case #9





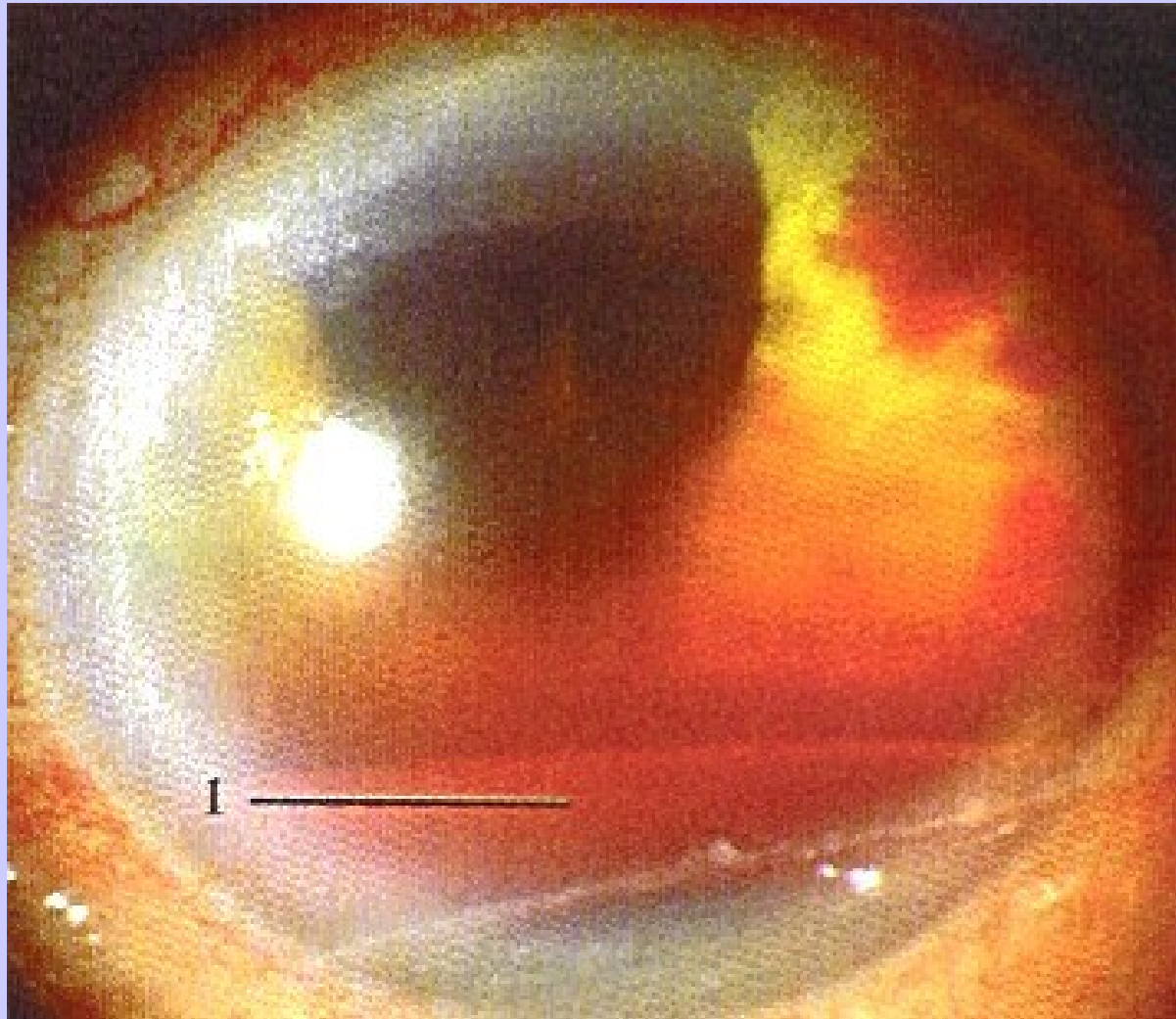
# Case #9

- **Tx:**
  - ***IMMEDIATE REFERRAL***
  - **lower IOP**
    - **beta-blocker (Timolol 0.5%)**
    - **Carbonic anhydrase inhibitor (Diamox PO)**
    - **Osmotic agents (isosorbide PO or IV mannitol)**

# Case #10



# Case #11



# Case #11

- **Tx:**
  - *refer immediately*
  - **shield affected eye immediately (no patch)**
  - **bed rest w/ head up**
  - **cycloplegic agents (atropine sulfate 1%) if clot < 24-48 hrs old**
  - **antiemetic, analgesic prn (no ASA or NSAIDs)**

# Case #12

